

DVI 101

DVI CABLE EQUALIZER

- Extends DVI-D/HDMI signals over DVI cable up to 200 feet (60 meters)
- Compatible with resolutions up to 1080p/60 HDTV and 1920x1200
- Compatible with HDMI signals when used with optional Extron HDMI-DVI adapters
- Automatic active input equalization
- Supports DDC and HDCP
- LED indicator for source signal presence and power
- Self-powered by source signal



The Extron DVI 101 is a DVI equalizer that offers a convenient, economical solution for extending single link DVI signals up to 200 feet using DVI cable assemblies. It automatically provides the necessary active equalization to ensure optimal image quality with HDTV 1080p/60 and high resolution computer-video signals up to 1920x1200. The DVI 101 is ideal for temporary applications as well as permanent installations with long DVI cable runs.



Extron® Electronics
www.extron.com

DESCRIPTION

The Extron **DVI 101** is a DVI equalizer that offers a convenient, economical solution for extending single link DVI signals beyond the specified 5 meter (15 foot) limitation with standard DVI cables. The DVI 101 attaches to the end of a long DVI cable run of up to 200 feet (60 meters). It automatically provides the necessary active equalization to ensure optimal image quality with HDTV signals up to 1080p/60 and high resolution computer-video signals up to 1920x1200. The DVI 101 is ideal for temporary applications as well as permanent installations with long DVI cable runs.

The DVI 101 passes EDID - Extended Display Identification Data information and supports the long distance transmission of HDTV signals with HDCP - High-bandwidth Digital Content Protection for copy protection of digital television broadcasts and high resolution digital video output from DTV tuners and DVRs, and Blu-ray Disc players. The DVI 101 is fully compatible with HDMI signals when used with the appropriate adapters from Extron.

At shorter distances, the DVI 101 can be self-powered by the source device via the DVI cable. An LED indicator provides a quick means of verifying power and signal presence from the source. Part of the VersaTools® line of small, economical, integrator-friendly products, the DVI 101 is housed in a compact 1" (2.5 cm) high, one-eighth rack width enclosure for easy placement and concealment.

FEATURES

- **Extends DVI-D/HDMI signals over DVI cable up to 200 feet (60 meters)**
- **Compatible with resolutions up to 1080p/60 HDTV and 1920x1200**
- **Compatible with HDMI signals when used with optional Extron HDMI-DVI adapters**
- **Provides automatic equalization to ensure optimized image quality over very long DVI cables**
- **Supports DDC and HDCP** – The DVI 101 fully supports long distance transmission of the DDC and HDCP signals.
- **LED indicator for source signal presence and power**
- **Self-powered by source signal** – The DVI 101 can be powered by the DVI port on the attached source device, eliminating the need for power supply installation. With 24 AWG cable, the DVI 101 can be powered via cable lengths up to 125 feet (38 m).
- **1" (2.5 cm) high, one-eighth rack width metal enclosure** – Housed in a compact, durable metal enclosure, the DVI 101 is small enough to fit anywhere and can be mounted in a rack.
- **External universal power supply included**

SPECIFICATIONS

NOTE: Appropriate HDMI-to DVI-D cables or adapters are required for HDMI signal input/output.

VIDEO

Video	
Maximum data rate	4.95 Gbps (1.65 Gbps per color)
Maximum pixel clock.....	165 MHz
Resolution range.....	Up to 1920x1200 or 1080p @ 60 Hz
Formats	RGB and YCbCr digital video
Standards	DVI 1.0, HDMI 1.2

VIDEO INPUT

Number/signal type.....	1 single link DVI-D (or HDMI*)
Connectors	1 female DVI-I
Input cable length	Up to 200' (61 m) at 1920x1200 or 1080p @ 60 Hz Up to 250' (76 m) at 1024x768, 720p, or 1080i @ 60 Hz Longer distances are possible with lower rates and/or high quality cable.

NOTE: The transmission distance varies greatly depending on the signal resolution and on the type of cable, graphic card, and display used in the system.

Equalization	Automatic for up to -40 dB of cable loss
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VIDEO OUTPUT

Number/signal type.....	1 single link DVI-D (or HDMI*)
Connectors	1 female DVI-I
Output cable length	Up to 15' (5 m)

GENERAL

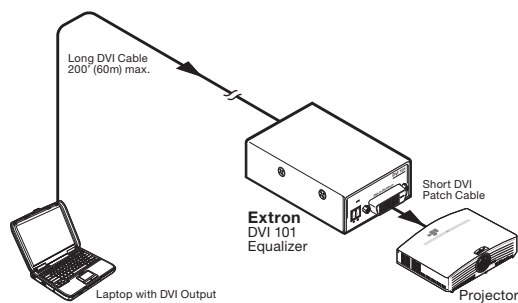
Power	Supplied by an external power supply or by the 5 V signal from a DVI source (pin 14) or an HDMI source (pin 18)
External power supply	100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 1 A, regulated
Power input requirements.....	12 VDC, 0.2 A from an external power supply or 5 VDC, 0.05 A from a DVI source or an HDMI source
Cooling.....	Convection, no vents
Mounting	
Rack mount.....	Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, #60-190-01; RSB 129, 60-604-01); 1U, 6" deep rack shelf (RSU 126, #60-190-10; RSB 126, 60-604-10); or 1U, 3.5" deep VersaTools® rack shelf (RSF 123, #60-190-20; RSB 123, 60-604-20)
Furniture mount.....	Yes, with optional MBU 125 Under-Desk Mounting Kit, #70-077-01
Enclosure type	Metal
Enclosure dimensions.....	1.0" H x 2.2" W x 3.0" D (one-eighth rack wide) (2.5 cm H x 5.6 cm W x 7.6 cm D)
Product weight	0.4 lbs (0.2 kg)
Shipping weight	2 lbs (1 kg)
Listings	UL, CUL
Compliances.....	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF.....	30,000 hours

NOTE: All nominal levels are at $\pm 10\%$.

Model	Version Description	Part Number
DVI 101	DVI Equalizer.....	60-873-01

Specifications are subject to change without notice.

APPLICATION DIAGRAM



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